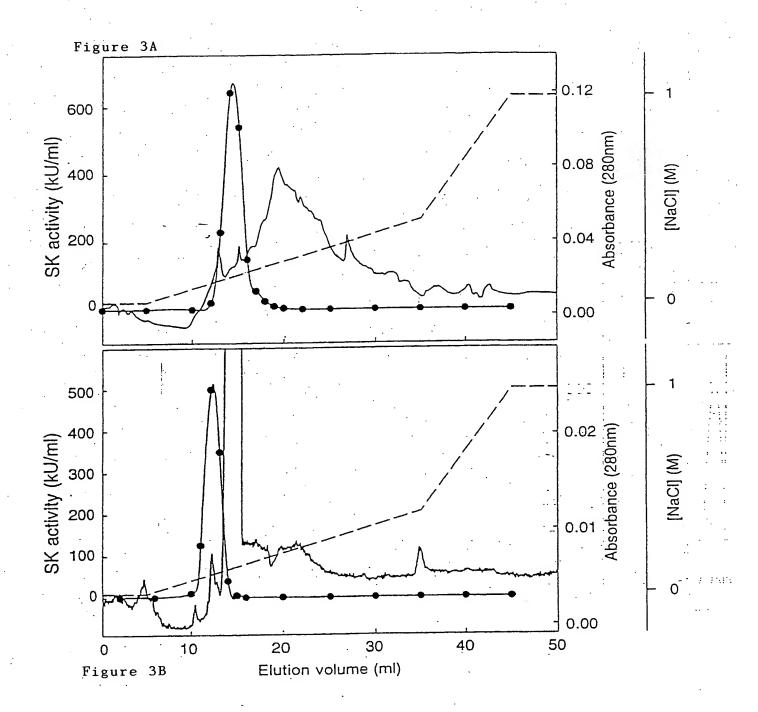


re 2



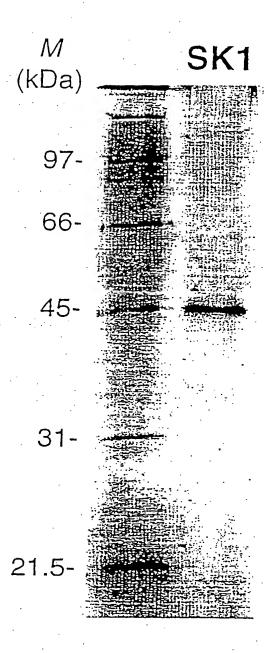


Figure 4

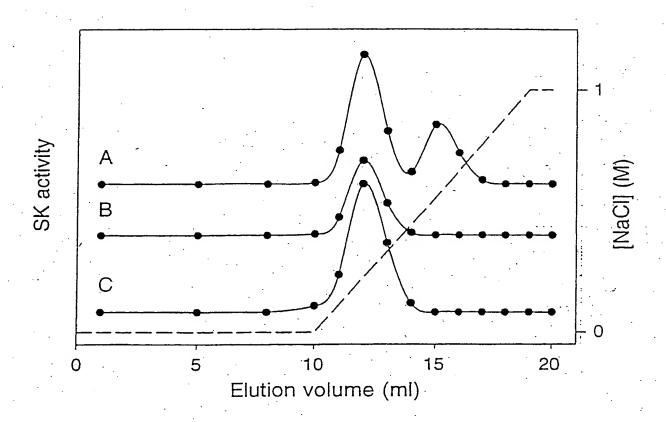


Figure 5

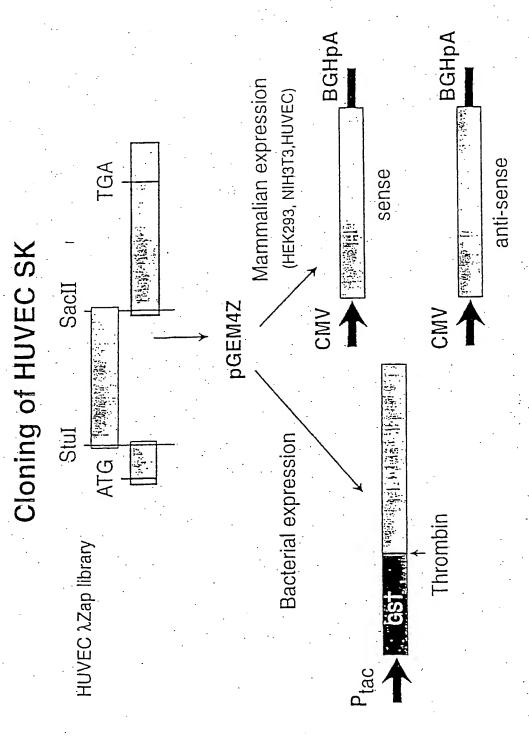


Figure 6

Figure 7A-

195 601	G T F L R L A A L R T Y R G R L A Y L P V G R V G GCCACTTTCCTGCGCACTTACCGCGGCCGACTTACCTGCTTACCTTACCTGCTTACCTTACCTGCTTACCTTACCTGCTTACCTTACCTGCTTACCTTACCTGCTTACCTTACCTACTACTACTACTACTACTACTACTACTA	219 675
220	S K T P A S P V V V Q Q G P V D A H L V P L E E P	244
676	TCCAAGACACCTGCCTCCCCGTTGTGGTCCAGCAGGCCCGGTAGATGCACACCTTGTGCCACTGGAGGAGCCA	750
245	V P S H W T V V P D E D F V L V L A L L H S H L G	269.
751	GTGCCCTCTCACTGGACAGGGGGGGGGGCTTTGTGCTAGTCCTGGCACTGCTGCACTCGCACCTGGGC	825
270	S E M F A A P. M G R C A A G V M H L F Y V R A G V	294
826	agtgagatgtttgctgcacccatgggccgctgtgccgtcatgcatcttgttctacgtgcgggggggg	900
295	S R A M L L R L F L A M E K G R H M E Y E C P Y L	319
901	TCTCGTGCCATGCTGCCTCTTCCTGGCCATGGAGAGGGCAGGCA	975
320. 976	V Y V P V V A F R L E P K D G K G M F A V D G E L GTATATGTGCCCGTGGTCGCCTTCCGCTTGGAGCCCAAGGATGGGAAGGTATGTTTGCAGTGGATGGGAATTG	344
345 .051	M V S E A V Q G Q V H P N Y F W M V S G C V E P P ATGGTTAGCGAGGCCGTGCAGGTGCACCCCAAACTACTTCTGGATGGTCAGCGGTTGCGTGGAGCCCCCG	369 1125
370	PSWKPQQMPPPEEPL•	384
1126	CCCAGCTGGAAGCCCCAGAAGAGCCCTTAtga	1173

Figure 7A-2

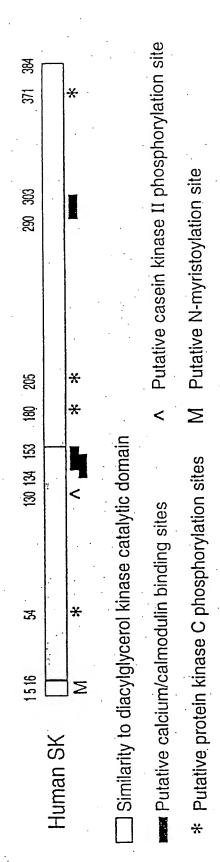
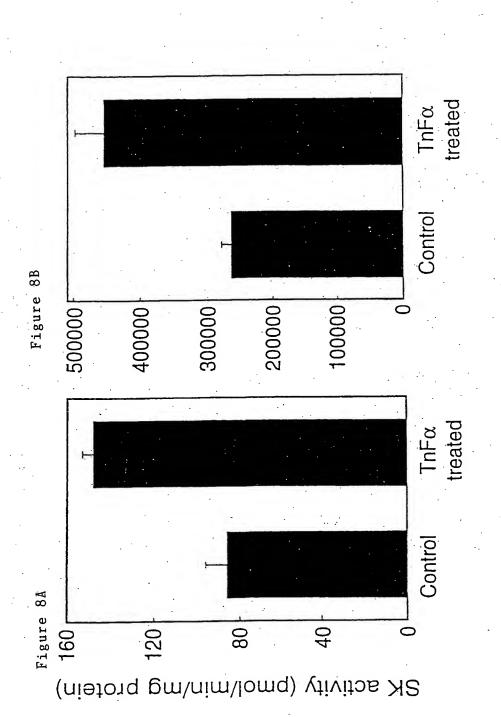


Figure 7B



nsk	⊣ i	MDPAGGPRGVLPMPCRVLWLLNPRGGKGKALQLGRSHVQBLDAEAEIS
mSKla	ᆏ.	MEPECPRGLLPRPCRVLVLLNPQGGKGKALQLPOSRVOPFREAEIT
mSK1b	ч	MWWCCVL.FVVECPRGLLPRPCRVLWLLNPOGGKGKALOLFOSRVOPFPEBAEIT
Yeast LCB4	206	NISSGTVEEILEKSYENSKRINRSILVIINPHGGKGTAKNLGLTKARPILVESGCK
Yeast LCB5	252	DLVEEILKRSYKNTRRNKSIFVIINPFGGKGKAKKLRMTKAKPLLLASRCS
S. pombe	06	FCEYLLDVAYKGIKRSRRFIVFINPHGGKGKAKHIWESEAEPVFSSAHSI
C. elegans	63	ENEQLTSVILSRKPPPQEQCRGNLLWFINPNSGTGRSLETPANTVGPKLDKSLIR
Consensus		*R**V.*NP.GGKGKA*F.*P.L*
hSK	112	SOM LAASLNHYAGYEQVTNEDLLTNCTILLCRRLLSPUNLLSLHTASGLRL
mSK1a	111	SGNALAASVNHYAGYEQVTNEDLLINCTULLCRRRLSPUNLLSLHTASGLRL
mSK1b	118	SGNALAASVNHYAGYEQVTNEDLLINCTLLCRRRLSPUNLLSLHTASGLRL
Yeast LCB4	325	SGNAMSISCHWTNNPSYAALCLVKSIETRIDLWCCSQPSYMNEWPR
Yeast LCB5	368	SGWAMSVSCHWTNNPSYSTYCLIKSIETRIDLWCCSQPSYAREHPK
S. pombe	203	SGWAFSYNATGQLKPALTALEILKGRPTSFDLWTFEQKGKKA
C. elegans	184	SGNGLLCEV LSKYGTKMNEKSVMERALEIATSPTAKAESVALYSVKTDNQ. SY
Consensus		SGNA*S*L.*.*.

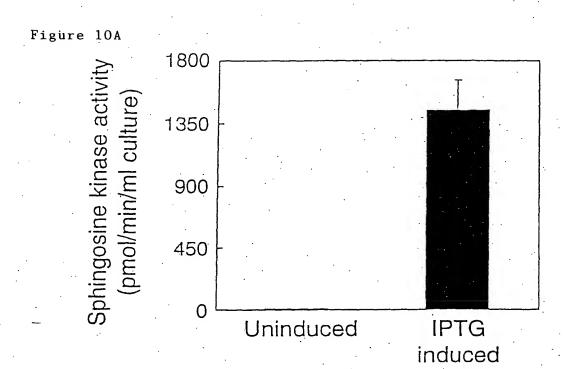
Figure 9A

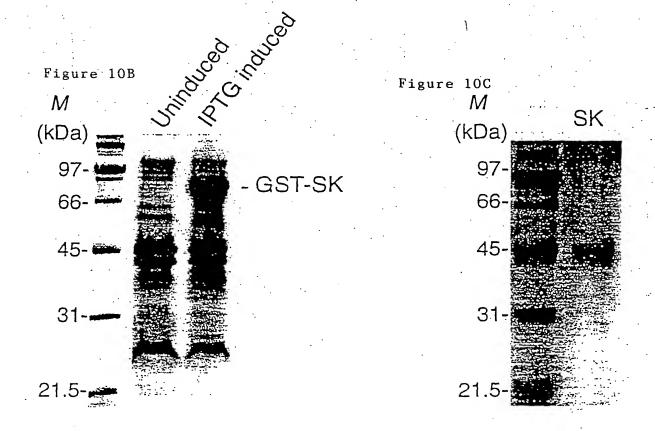
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mSK1a	210	AYLPVGTVASKRPAST.LVQKGPVD
mSK1b	217	AYLPVGTVASKRPAST.LVQKGPVD
Yeast LCB4	435	ENKDKNKGCLTFEPNPSPNSSPDLLSKNNINNSTKDE
Yeast LCB5	478	EHKNKGSLEFQHITMMKDNEDCDNYNYENEYETENEDEDEDADADDEDSHLIS
S. pombe	308	EKSKNLAPMSESSDSDK
C. elegans	284	TYRPYKPKGFHPSSNVFSVYEKTTQQRIDDSKVKTNGSVSDSEEETME
Consensus	•	*
NSN.	797	AGVMDLFIV. RAGVSKAMLDKDFIDAMEKGKRIMETECFIDVIVVAFKDERKDG
mSK1a	280	AGVMHLFYV RAGVSRAALLRLFLAMQKGKEMELDCPYLVHVPVVAFRLEPRSQ
mSK1b	287	AGVMHLFYVRAGVSRAALLRLFLAMQKGKRMELDCPYLVHVPVVAFRLEPRSQ
Yeast LCB4	532	Detidluitdariputkmtpillsldkeskvlepevihskilaykiipkve
Yeast LCB5	586	DeTMDMVITDARTSLTR MAPILLGLDKOSH VLOPEVLHSKILAYKIIPKLG
S. pombe	367	DeliduvivyskofrksLlsmftqldnggfyyskhlnyykvrsfrftpunt
C. elegans	388	DNRIHLSYILWKDIGTRVNIAKYLLAIEHETELDLPFVKHVEVSSMKLEVISE
Consensus		.G.*.***R**.L**G.HP.**.*.*.P.

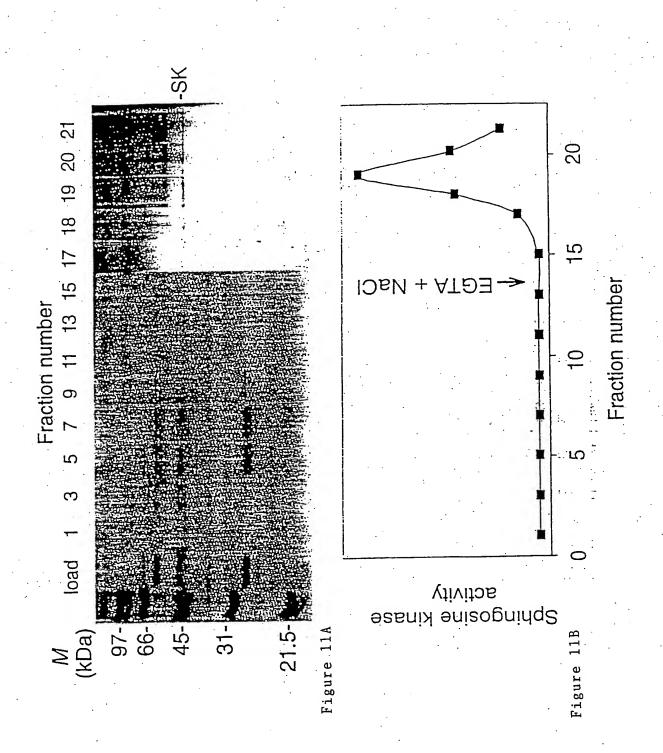
RE.LVRSEELGRW

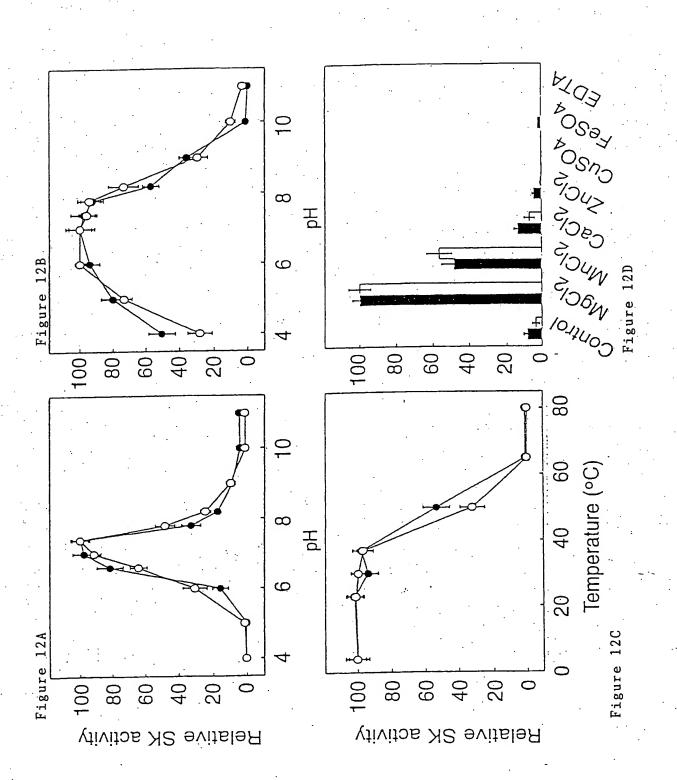
*F**DGEE****.P*
GS. HVVLDGEVVDTKTIEVASTKNHIS.VFSSTA30%
AGFQLLDI30%
GRYVDTDFDSM30%
GRYIDTEFESM28%
SRDAPSGRDSRRGPPPEEP. 80%
SRDAPSGRDSRRGPPPEEP. 81%
KG. MAAVICALMVSBAVOGOVHPNYFW. MVSGCVEPPPSWKPQOMPPPEEPL identity
· · · · · · · · · · · · · · · · · · ·
TKFQNWTLPDSDETLAVGSSDLEETVVIEDNFVNIYAVTLSHIAADGPFAPSAKLE
TVSTSPESHLLTFEI.NDLSIFCAGLLPYIAPDAKMFPAASND
RDLADSSADQIKEEDFKIKYPLDEGIPSDWERLDPNISNNLGIFYTGKMPYVAADTKFFPAALPS
LNEDNFKLKYPMTEPVPRDWEKMDSELTDNLTIFYTGKMPYIAKDTKFFPALPA
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QDFVLVLVLLHTHLSSELFAAPMGRCE
EDFVLVLALLHSHLGSEMFAAFMGRCA

Figure 9D

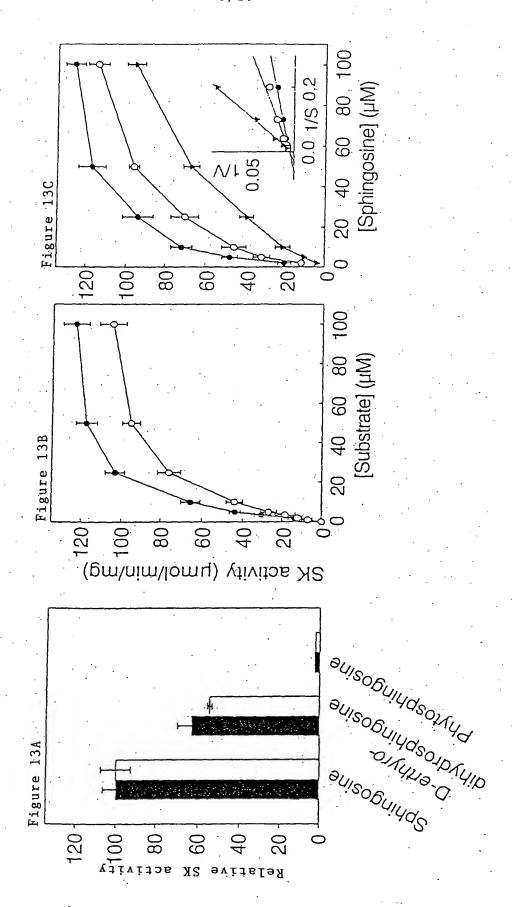








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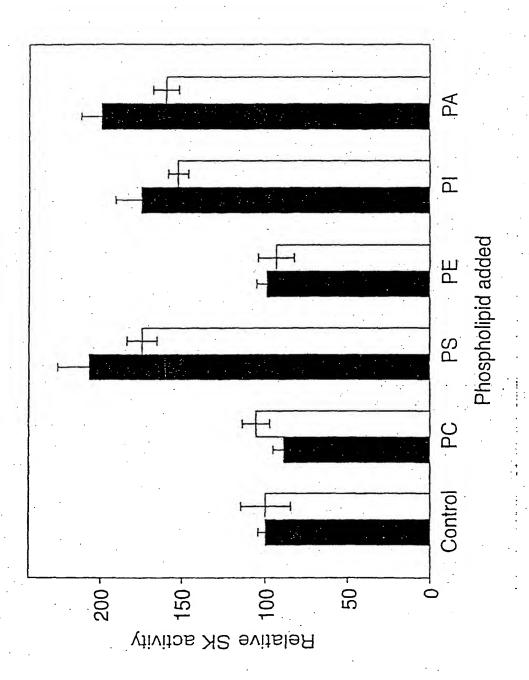


Figure 14